

Grant County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/26/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 17 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Grant County economy.¹

These 17 sectors have a total direct output of approximately **\$515.3 million** and support **832 jobs** in Grant County. Running the model for all 17 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Grant County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	832.1	18.72%	\$141,219,383	33.12%	\$515,311,964
Indirect Effect	340.7	7.66%	\$32,263,661	7.57%	\$63,238,755
Induced Effect	283.0	6.37%	\$19,907,433	4.67%	\$37,173,251
Total Effect	1455.9	32.75%	\$193,390,478	45.35%	\$615,723,970

As shown in the above table, agriculture, food, and food processing sectors support **1,456 jobs**, or **32.75%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 17 agriculture, food, and food processing sectors is approximately **\$193.4 million**, or **45.35% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelp.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **489 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Grant County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	489.0	\$416,693,338
Support activities for agriculture and forestry	184.3	\$12,701,050
Wholesale trade	124.3	\$25,528,968
Truck transportation	64.0	\$11,702,308
Landscape and horticultural services	56.5	\$1,854,831
Veterinary services	37.8	\$4,624,226
Real estate	37.8	\$5,177,756
Monetary authorities and depository credit intermediation	36.3	\$6,733,397
Limited-service restaurants	36.0	\$2,615,750
Grain farming	29.3	\$65,283,066

The beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector directly contributes approximately **\$416.7 million** to the Grant County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	489.0	\$416,693,338
Grain farming	29.3	\$65,283,066
Wholesale trade	124.3	\$25,528,968
Support activities for agriculture and forestry	184.3	\$12,701,050
Truck transportation	64.0	\$11,702,308
Owner-occupied dwellings	0.0	\$9,103,487
Monetary authorities and depository credit intermediation	36.3	\$6,733,397
Real estate	37.8	\$5,177,756
Animal production, except cattle and poultry and eggs	8.7	\$4,721,520
Veterinary services	37.8	\$4,624,226

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Grant County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	0.2	\$1,177,575.11
Grain farming	29.3	\$65,283,065.80
Vegetable and melon farming	0.6	\$240,024.72
Greenhouse, nursery, and floriculture production	2.7	\$675,122.26
Cotton farming	1.0	\$457,945.79
All other crop farming	1.1	\$471,661.66
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	489.0	\$416,693,328.86
Dairy cattle and milk production	3.9	\$3,062,465.43
Poultry and egg production	0.1	\$94,133.46
Animal production, except cattle and poultry and eggs	8.7	\$4,721,519.47
Support activities for agriculture and forestry	184.3	\$12,701,049.80
Bread and bakery product, except frozen, manufacturing	8.1	\$1,070,408.23
Frozen cakes and other pastries manufacturing	0.3	\$42,807.54
Tortilla manufacturing	5.9	\$1,242,917.66
Farm machinery and equipment manufacturing	2.6	\$898,872.91
Veterinary services	37.8	\$4,624,225.62
Landscape and horticultural services	56.5	\$1,854,830.62

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Grant County, the retail sector was omitted.